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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/987,901	11/16/2001	Yasunori Toda	011543	7804
38834	7590	03/14/2007	EXAMINER	
WESTERMAN, HATTORI, DANIELS & ADRIAN, LLP			HARMON, CHRISTOPHER R.	
1250 CONNECTICUT AVENUE, NW				
SUITE 700			ART UNIT	PAPER NUMBER
WASHINGTON, DC 20036			3721	
SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE	DELIVERY MODE	
3 MONTHS		03/14/2007	PAPER	

**Please find below and/or attached an Office communication concerning this application or proceeding.**

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	09/987,901	TODA, YASUNORI	
	<b>Examiner</b>	<b>Art Unit</b>	
	Christopher R. Harmon	3721	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

1) Responsive to communication(s) filed on 11 January 2007.  
 2a) This action is **FINAL**.      2b) This action is non-final.  
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

4) Claim(s) 1-3 and 5-9 is/are pending in the application.  
 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.  
 5) Claim(s) \_\_\_\_\_ is/are allowed.  
 6) Claim(s) 1-3 and 5-9 is/are rejected.  
 7) Claim(s) \_\_\_\_\_ is/are objected to.  
 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

9) The specification is objected to by the Examiner.  
 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
 a) All    b) Some \* c) None of:  
 1. Certified copies of the priority documents have been received.  
 2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

1) <input type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)	5) <input type="checkbox"/> Notice of Informal Patent Application
Paper No(s)/Mail Date _____	6) <input type="checkbox"/> Other: _____

## DETAILED ACTION

### ***Continued Examination Under 37 CFR 1.114***

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 12/14/06 has been entered.

### ***Claim Rejections - 35 USC § 103***

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-3 and 8-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hayashi (JP 07-041244).

Hayashi discloses a pivotable swing arm 5 for guiding a continuous paper for accordion folding with equal widths as a result of the swinging action of the arm; table (below container 2) that receives the folded paper; see figures 2-3. The swing arm comprises an arm main body 5, sub-arm 8 (rectangular plates 84) that pivots along an axis (pivot axis at top of body 5, fig. 3) by operation of motor 10 disposed within the

axis, see fig. 4. Hayashi does not directly disclose a telescoping motor but rather a telescoping actuator cylinder assembly 9.

The common knowledge modification previously taken, ie. that motors and cylinders are well known in the art as alternates for actuating mechanical movement, is taken to be admitted prior art because applicant failed to traverse the examiner's previous assertion of Official Notice.

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to substitute a motor for the cylinder assembly in Hayashi for extending and retracting the sub-arm plates 84.

Hayashi does not also disclose the condition of both plate members 84 projecting from the tip of the arm main body when the arm swings to either side but rather only a single plate. Because each plate 84 is fully capable of projecting as claimed, and does so alternately upon swinging to either side, the examiner concludes the conditional limitation amounts to a mere design choice of actuation. Note: that while features of an apparatus may be recited either structurally or functionally, claims directed towards an apparatus must be distinguished from the prior art in terms of structure rather than function. See *In re Schreiber*, 128 F.3d 1473-78, 44 USPQ2d 1429-32 (Fed.Cir. 1997) and *Hewlett-Packard Co. v. Bausch & Lomb Inc.*, 909 F.2d 1464, 1469, 15 USPQ2d 1525, 1528 (Fed.Cir. 1990).

Regarding claim 3, Hayashi discloses lifting mechanism 7 for raising the swing arm so that it does not contact the surface of the folded continuous paper.

Regarding the limitation of “perforations”, note: “Expressions relating the apparatus to contents thereof during an intended operation are of no significance in determining patentability of the apparatus claim.” *Ex parte Thibault*, 164 USPQ 666 (Bd. App. 1969). The apparatus of Hayashi is fully capable of performing folds to perforated paper along such perforations as claimed.

3. Claims 5-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hayashi (JP 07-041244) in view of Martin et al. (US 5,062,597).

Regarding claim 5, Hayashi does not directly disclose a table that moves vertically nor has a detection mechanism for controlling vertical movement of the table. However Martin et al. describe a vertically controlled table 47; creasing mechanism 13; see figure 1. Sensors 40 detect proper positioning of the stacked paper and control raising and lowering of the table according to preset values; see column 5, lines 55-68.

The table control system of Martin et al. comprises a resetting system, which performs lowering and raising of the table upon detection positioning of the folded paper. The programmable control mechanism does not structurally limit the claimed invention. The term “error” is considered in a broad context ie. a fold error is considered present when the folded paper stack reaches over the desired height.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to include the table and controls of Martin et al. in the invention of Hayashi in order to manipulate the folds and the stacks without interference. Note that Hayashi solves this problem by different means ie. lifting mechanism 7.

Regarding claim 6, Hayashi does not directly disclose the device in use with a printing apparatus however Martin et al. discloses a printing apparatus in combination with a piling device. It would have been obvious to one of ordinary skill in the art at the time of the invention to provide the piling device of Hayashi in a continuous medium printing apparatus as taught by Martin et al. for stacking piles of printed matter.

Regarding claim 7, Hayashi does not directly disclose the use of a creasing mechanism for creasing the continuous paper in equal widths however Martin et al. teach a creasing mechanism 35; see figure 5. It would have been obvious to one of ordinary skill in the art at the time of the invention to include the creasing mechanism of Martin et al. in the invention to Hayashi for insuring the folding of the continuous paper at the edge location.

#### ***Response to Arguments***

4. Applicant's arguments filed 12/14/06 have been fully considered but they are not persuasive. Regarding the position of the motor, the element clearly in the pivot axis of the swing arm (figure 4) is considered an integral part of the motor. Furthermore, note that it has been held that rearranging parts of an invention involves only routine skill in the art. *In re Japikse*, 86 USPQ 70.

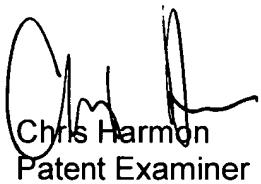
Regarding the common knowledge modification previously taken (Official Notice), in order to adequately traverse such a finding, an applicant must specifically point out the supposed errors in the examiner's action, which would include stating why the noticed fact is not considered to be common knowledge or well-known in the art. See 37 CFR 1.111(b). See MPEP 2144.03(c) and also Chevenard, 139 F.2d at 713, 60 USPQ

at 241. Applicant admits that motors and cylinders are well known in the art as alternative means of actuation, see Response page 8, last paragraph. The subsequent arguments concerning whether or not they are "equivalents" is moot because the assertion was not made by the examiner. Furthermore, the citation to *In re Ruff*, 118 USPQ 340 (1958) does not apply to the instant case because the reliance there was upon applicant's own disclosure of what was considered an "equivalent" and not the prior art. In the instant case the examiner took the position that motors and cylinders are well known in the art as alternates for actuating mechanical devices. Because applicant expressly agreed in the Response of 12/14/06, without differentiating the two, other than that each "impart particular benefits and drawbacks" (page 8, last line), the modification is considered admittedly obvious to one of ordinary skill in the art.

### ***Conclusion***

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher R. Harmon whose telephone number is (571) 272-4461. The examiner can normally be reached on Monday-Friday from 9-6. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rinaldi Rada can be reached on (571) 272-4467. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Chris Harmon  
Patent Examiner